A Memorandum of Agreement has been signed with the Tennessee Valley Authority to furnish State Climatologist support to the State of Tennessee. The State Climatologist will be Robert C. Beebe. Mr. Beebe's address is Tennessee Valley Authority, 524 Union Avenue, 310 Evans Building, Knoxville, TN 37901.

#### \*\*\*\*\*\*\*\*

The NCC and AASC are pleased to welcome Mr. John C. Purvis as the new State Climatologist for South Carolina. Mr. Purvis replaces Mr. Mark W. Perry. Mr. Purvis' address is South Carolina Division of Research and Statistical Services, 1028 Sumter Street, Suite 201, Columbia, SC 29201.

#### \*\*\*\*\*\*\*

Thunderstorm Report. The Nuclear Regulatory Commission has published "National Thunderstorm Frequencies for the Contiguous United States (NUREG/CR-2252)." This report, authored by Michael Changery of the National Climatic Center's Applied Climatology Branch, presents month and annual analyses of mean thunderstorm frequencies utilizing 30 years of data extracted for a 450-station network. Results will be used by the NRC in site standards development for nuclear plant siting. This report is available for \$4.50 from GPO Sales Program, Division of Technical Information and Document Control, U.S. Nuclear Regulatory Commission, Washington, DC 20555.

#### \*\*\*\*\*\*\*

Navy Atlas. The U.S. Navy Marine Climatic Atlas of the World, Volume IX, "World-Wide Means and Standard Deviation, NAVAIR 50-1C-65," has been printed. The atlas contains analyses of surface wind, surface air temperature, sea surface temperature, air-sea temperature difference, dew point temperature, sea-level pressure, and wave height. This publication can be obtained from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402 for a cost of \$31.00.

## **\***\***\***\***\***\***\***\*

Hurricane Tracks. The revised and updated edition of Tropical Cyclones of the North Atlantic Ocean, 1871 - 1980 has been printed and distributed in a cooperative effort among ESIC/NHC/NHRL and NCC. Copies are available from NCC for \$5.00. The earlier version of the publication (covering 1871 - 1977) has been out-of-print for about two years.

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# PAST HIGHLIGHTS

Climatology at the Illinois State Water Survey has enjoyed a relatively long and productive life. Many reports and bulletins have appeared over the years identifying and demarcating the climates of Illinois, showing and discussing changes to the distribution of certain climatic parameters in both space and time. Hydrometeorological research also has been a major effort at the Survey. The meso-scale raingage networks, operated by the Survey for many years in Illinois and other states, have provided the data base and thereby the means to answer many questions on precipitation intensity-duration relationship, and the areal extent of various precipitation Both parameters significantly impact engineering and construction interests.

Another area of great research has been the study of inadvertent climate modification by power plants, cities, and other man-made influences. This culminated in the 5-year field study of the modification to the environment in and around St. Louis (METROMEX) and yielded a new dimension of information on the temporal and spatial extent of the impact of a large metropolitan area on the distribution of various climatological conditions. Similar research has been pursued in the Chicago Metropolitan area, to determine the urban as well as the Lake Michigan influences on weather conditions and climate. This area of research also now incorporates studies of jet contrails.

## CURRENT CLIMATE SECTION GOALS

With the 1980 establishment of the Climatology Section, objectives and interests were refocused from the rather broad scope that the former Atmospheric Sciences Section had attained. The program objectives of the Climatology Section include:

- studies to develop a better understanding of the dynamics, causes and distribution of climatic parameters and features, particularly in Illinois;
- research to better explain past climatic changes as well as to increase skills in predicting future climate;
- 3. research to quantitatively define the impact of climate on human endeavors and the biosphere;
- 4. collection and maintenance of climatological data from the Illinois cooperative weather stations as well as our own specialized studies and new climate networks;
- 5. dissemination of findings to appropriate user communities;
- 6. cooperate with other states and federal agencies to increase use of climate data and information.

Our research, data collection and service activities may be divided into three categories: (1) the climate systems, (2) climate impact assessment and (3) the Illinois Climate Center.

The NCC and AASC are pleased to welcome Dr. Wayne M. Wendland as the new State Climatologist for Illinois. Dr. Wendland's appointment will be effective May 1, 1982. NCC and the AASC look forward to working with Wayne. However, in welcoming Wayne we are forced to say goodbye to a friend - Stanley A. Changnon. Stan has given a number of years to the SC program and has done a fine job. He served the AASC as its 1981 president and was instrumental in helping to make the AASC the fine organization it is today. We offer our sincere thanks to Stan for the work that he has done in supporting the State Climatologist program during the past few years, and we look forward to continuing our strong working relationship with the State of Illinois.

#### \*\*\*\*\*

CORRECTION: The article entitled "The Climate Program at the Illinois State Water Survey" published in the January 1982 issue of The State Climatologist should have stated (page 9) that the recently initiated Regional Climate Coordinating Office was funded by the National Climate Program Office, and will coordinate services and research projects for the 12 states in the North Central - 94 region."

#### \*\*\*\*\*\*

CHANGE IN NCC CUSTOMER SERVICE TELEPHONE NUMBER: Data and information from the National Climatic Center may be obtained by calling Commercial 704-258-2850, extension 682 or FTS 672-0682. Extension 682 is on an eight line rotary system. The newly reorganized Climatological Services Section will handle all requests for data regardless of the desired output (i.e., microform, digital, paper copies, etc.).

#### \*\*\*\*\*

PRICE OF PUBLICATIONS: For years the cost of printing our climatological bulletins was subsidized through Congressional appropriations. The nominal fees charged did not cover expenses of printing, handling and mailing.

New fiscal policies now require us to recover nearly all of the costs associated with the production of these publications. The increased prices beginning November 1, 1981 reflect these new policies and are based on a detailed costs analysis.

To further reduce costs some bulletins were discontinued or combined with other publications. The goal in this effort was to retain the basic climatological information even though the format or method of presentation might be different. We are faced with either increasing charges or discontinuing most of our publications.

The NCC is striving to produce its publications as economically as possible so that further price increases may be kept to a minimum.

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## REORGANIZATION

The proposed NOAA reorganization, shown on the accompanying chart, establishes eight staff offices, each of which will be headed by a director. The functions and responsibilities of five of these offices -- the NOAA Corps, General Counsel, Congressional Affairs, Public Affairs, and Civil Rights -- remain unchanged under the proposed reorganization.

The remaining three staff offices will assume some different responsibilities. They include:

- Office of Policy and Planning. This office will provide specialized staff support to the Office of the Administrator, and to the Main Line Components. Its functions will include continued responsibilities for policy analysis, long-term planning, international and interagency liaison, and ecology and conservation coordination.
- Office of Budget and Finance. Budget and finance are important tools in the overall management of NOAA's activities. This office will provide staff support for NOAA's budget formulation and execution activities and be the focus for management of NOAA's financial resources. The office will encompass the functions now assigned to the Office of Budget Resources and Management as well as the Office of Finance.
- Office of Administrative and Technical Services. This office will provide staff support in the areas of personnel, facilities, computing, management systems, and administrative operations and will provide day-to-day support to the Main Line Components in these areas.

The proposed reorganization also establishes five Main Line Components, each headed by an assistant administrator.

• National Ocean Service. This office will provide a focus for the development of a comprehensive strategy within NOAA that will address the increasing uses and opportunities of the oceans. The office will group most of NOAA's ocean-related activities, except those dealing with living marine resources carried out by the National Marine Fisheries Service. Its functions will include NOAA's mapping, charting, geodesy, marine pollution, ocean mining and energy, and coastal management responsibilities. Supporting activities will include those areas related to marine operations, ocean engineering, and technology development.

- National Weather Service. In recognition of the importance and size of the Weather Service, this component will report directly to the Administrator. Its basic functions will remain the same. Supporting services will include NOAA data buoy activities.
- National Marine Fisheries Service. The basic functions of NMFS will remain unchanged.
- National Environmental Satellite, Data, and Information Service.

  Much of the work NOAA performs involves providing data and information services to users both inside and outside the agency. In recognition of the close relationship between the satellite data gathering capabilities of the agency (NESS) and NOAA's data and information processing and dissemination functions (EDIS), these two activities will be brought together. This new component will eventually include climate activities.
- Office of Oceanic and Atmospheric Research. This component will conduct long-term and fundamental research through ERL and extramural programs to support NOAA missions. In addition, this office will ensure closer and more direct coordination with the applied research and development work located within the four service-oriented line components.

NOAA's responsibilities for the coordination of national programs will be assigned to the appropriate main line component.

Cost estimates may be obtained prior to ordering by calling or writing to:

National Climatic Center User Services Branch Federal Building Asheville, NC 28801

(704-258-2850, ext 682; FTS 672-0682)

If you wish to obtain any additional information on this subject, please write or call:

National Climatic Center Data Base Administrator Federal Building Asheville, NC 28801

(704-258-2850, ext 385; FTS 672-0385)

Attachments

A recent reorganization at the National Climatic Center has transferred various responsibilities from one section to another. Because of this, the state Special Weather Summaries for inclusion in the Climatological Data monthly publication should now be submitted to:

Publications Control Section - D5121 National Climatic Center Federal Building Asheville, NC 28801

The NCC and the AASC are pleased to welcome into our group the new State Climatologist for the State of New Mexico, Mr. Kenneth E. Kunkel. Ken has taken over the SC duties from Dr. William Stevens, Director of the New Mexico Department of Agriculture. Ken's address is P. O. Box 5702, Department of Agriculture, Las Cruces, NM 88003. Ken tells us that he is looking forward to attending the Annual AASC Meeting in Charlottesville, VA in August.

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1951-80 Normals. The 1951-80 monthly normals of temperature, precipitation, and heating and cooling degree days have been published. Maximum, minimum, and mean temperature normals and heating and cooling degree day normals have been prepared for 3,017 cooperative and 332 first-order stations. Precipitation normals have been prepared for 5,179 cooperative and 332 first-order stations. Sequential data listings have not been printed, but they will be available on microfiche. The normals and sequential listings are also available on tape. (N. Guttman, FTS 672-0319)

<u>Publications</u>. The following publications by M. J. Changery of the National Climatic Center have been published by the U.S. Nuclear Regulatory Commission:

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- 1. National Thunderstorm Frequencies for the Contiguous United States, NUREG/CR-2252, published November 1981.
- 2. Historical Extreme Winds for the United States Atlantic and Gulf of Mexico Coastlines, NUREG/CR-2639, published May 1982.
- 3. <u>Historical Extreme Winds for the United States Great Lakes and Adjacent Regions</u>, NUREG/CR-2890, published August 1982.

A limited supply of each publication is available from the National Climatic Center. (R. G. Quayle, FTS 672-0765)

\*\*\*\*\*\*\*\*

Data Inventory. The National Climatic Center (NCC) has printed an 80-page draft Inventory of Sources of Long Term Climatic Data in Microfilm and Publication Form by H. Diaz, E. Funderburk, III, and M. Burgin. The project was funded partly by DOE under the auspices of their CO2-climate program, which requires historical climatological data. The sources documented in the publication have been collected by NCC and the Climatic Research Unit, University of East Anglia, Norwich, England. A limited supply is available from the NCC. (Robert G. Quayle, FTS 672-0765)

#### AMERICAN ASSOCIATION OF STATE CLIMATOLOGISTS

# ANNUAL BUSINESS MEETING Charlottesville, Virginia

The business meeting was called to order at 10:45 a.m., August 13, 1982 by President Dethier.

Chairman Plummer (Georgia) of the State Programs Committee reported that a lack of activities precluded a formal report. He identified the climatic divisions in Georgia as a problem and suggested that the climatic divisions might be an area for study by the AASC.

Chairman Schaal (Indiana) of the Relations with EDIS and NWS Committee reported no actions during the past year. He recommended that liaison between the State Climatologists and the Network Specialists be established within each State.

Chairman Molnau (Idaho) of the Computer Committee submitted a written report. That report is attached to these minutes.

Chairman Michaels (Virginia) of the Constitution and Bylaws Committee distributed the revised constitution to members present. A copy of the revised constitution is attached to these minutes.

Chairman McKee (Colorado) of the Nominatine Committee submitted the nominations of Dr. Robert A. Muller (Louisiana) for President Elect and Dr. Kenneth G. Hubbard (Nebraska) for Secretary-Treasurer. These individuals were elected by acclamation.

Minutes of the 1981 meeting as published in The State Climatologist were approved without opposition.

Secretary-Treasurer Conner (Kentucky) presented the financial report which is appended to these minutes.

President Dethier reported on several meetings which he attended during the past year. He reported four problem areas which require attention. First, no one should speak for the AASC except the President and the Executive Board. Second, we should encourage non-member State Climatologists to Join our Association. Third, the question of dues should be addressed next meeting because, as the sole source of

funds, the current dues are insufficient to support the required travel of the President. Finally, the question of members versus associate members remains and a committee should be appointed to investigate and recommend action.

meeting for nominations for President Dethier opened the in the AASC. Griffiths (Texas) Associate Membership nominated George Bomar, Wise (Alaska) nominated Ken Hadeen, Waite (Iowa) nominated Larry Schaal, Goodridge (California) nominated John James, McKee (Colorado) nominated Lowell James Rahn, Mather (Delaware) nominated Daniel Krawitz and (Virginia) nominated Mark Perry, Havens Mitchell, Michaels (New Jersey) nominated Stan Changnon, and Conner (Kentucky) nominated Charles Bach. Nominations approved without opposition.

President Dethier moved that President Elect Nurnberger send a letter of appreciation from the AASC to Val Mitchell and Larry Schaal for their support and contributions to the Association. Seconded by Waite (Iowa) and approved without opposition.

President Dethier moved that he draft a letter to Joe Friday and Margaret Courain expressing appreciation for the presentations made by the Federal representatives at this meeting. Seconded by Nurnberger (Michigan) and approved without opposition.

McKee (Colorado) complimented Peter Robinson's performance in the National Climate Program Office. He also expressed best wishes to Bernie Dethier who is replacing Robinson in that office.

President Dethier extended thanks to Pat Michaels (Virgina) and his staff for the superb support of our meeting and the hospitality of the University of Virginia. All members present Joined in that acclaim.

President Dethier gave the gavel to the new President Nurnberger who thanked President Dethier for his leadership during the past year. The members voiced their approval of President Dethier's efforts in our behalf.

President Nurnberger expressed the Association's gratitude to Secretary-Treasurer Conner for his work in that office during the past two years.

President Nurnberger opened with a discussion of the committees. There was general agreement that the current committees could be continued except for the Storm Data Committee. That Committee's work is effectively completed

with the improvement now evidenced in the Storm Data publication. The President will consider appointing a Publications Committee to address other publications. Murphy (Oregon) suggested that a committee on the value and utility of climatic information be established. Support for such a committee was voiced by the members. Discussion of the quality of data included suggestions of a committee to investigate quality. President Nurnberger took the suggestions for committees under advisement and will announce committee appointments at a later date.

McKee (Colorado) stated his support for retention of the current membership and voting procedures. His views were supported by the membership and re-opening these issues was opposed.

Several invitations were proffered for a meeting location for the 1983 meeting. The membership voted to accept the invitation to hold the 1983 meeting at Asheville, North Carolina with the National Climatic Center as the host.

Wise (Alaska) extended an invitation to meet in Alaska in 1984. No action taken on this most gracious offer.

A list of attendees at the meeting is attached to these minutes.

The business meeting was adjourned at 12:00, August 13, 1982.

# FINANCIAL STATEMENT

Balance as of 13 August 1981 Dues collected	\$2,533.67 280.00
Total	\$2,813.67
Expenses 13 August 1981 - 11 August 1982 Colorado State University (1981 meeting) President's Expenses Secretary's Expenses Total	\$1,203.82 350.00 5.00 \$1,254.85
Registration, Fees, Dues Collected 12-13 August 1982	\$3,168.00
Expenses relative to 1982 meeting University of Virginia Other Total	\$1,750.00 209.00 \$1,959.04
Balance as of 15 September 1982	\$2,463.81

#### CONSTITUTION

#### AMERICAN ASSOCIATION OF STATE CLIMATOLOGISTS

## I. Name

This non-profit organization shall be called the American Association of State Climatologists.

## II. Objectives

The objectives of the Association are to:

- Promote cooperation between State Climatologists and and those federal, state, and private agencies whose functions include the collection, analysis and dissemination of climatic information;
- 2. Facilitate exchange of information among State Climatologists, and
- 3. Provide mutual assistance in the development of effective State Climatologist programs.

Notwithstanding any other provision of these articles, this Association shall not carry on any other activities not permitted to be carried on by (a) an Organization exempt from Federal Income Tax under Section 501(c) (3) of the Internal Revenue Code of 1954 or the corresponding provision of any future United States Internal Revenue Law or (b) an Organization contributions to which are deductible under Section 170(c) (2) of the Internal Revenue Code of of 1954 or the corresponding provision of any future United States Internal Revenue Law.

## III. Dissolution

Upon the dissolution of the Association, the Executive Board shall, after paying or making provision for the payment of all liabilities of the Association, dispose of all the assets of the Association exclusively for the purpose of the Association in such manner, or to such organization or organizations organized and operated exclusively for charitable, educational, or scientific purposes as shall at the time qualify as an exempt organization or organizations under Section 501(c) (3) of the Internal Revenue Code of 1954 (or the corresponding provision of any future United States Internal Revenue Law), as the Executive Board shall determine. Any of such assets not so disposed of shall be disposed by the Superior Court of the county in which the principal office of the Association is then located, exclusively for such purpose or to such organization or organizations, as said Court shall determine, which are organized and operated exclusively for such purposes.

## IV. Membership

1. The Membership of the Association shall consist of:

Voting Members

Associate Members.

- 2. Any person who is currently recognized by the Director of the National Climatic Center and a state agency as an official State Climatologist shall become a Voting Member upon voluntary registration of his or her name and address with the Secretary of the Association, and payment of dues.
- 3. Any person who subscribes to the Constitution and Bylaws of the Association shall be eligible for Associate
  Membership upon nomination by one or more Voting Members
  and election by a majority of Voting Members, and payment of dues. Associate Members shall be entitled to
  all rights and privileges of Association Membership except the right to vote and the right to hold office.

## V. Officers

#### A. Elected

- 1. In order to direct the activities of the Association toward its objectives an Executive Board, elected by majority vote of Voting Members, shall consist of a President, who shall be the immediate past President-Elect; a President-Elect; the immediate Past President, and a Secretary-Treasurer. Each must be a Voting Member of the Association. Their duties shall be those normally assigned to comparable offices in national scientific organizations.
- Regular terms of office shall be for one year, or until the next Association meeting following the regular oneyear term.
- 3. The Secretary-Treasurer shall be eligible for re-election.
- 4. If the Office of the President becomes vacant, the President-Elect shall assume that office for the unexpired term.
- 5. A vacancy in the unexpired term of the President-Elect shall be filled by election at the next meeting of the Association.
- 6. The President shall appoint a Voting Member of the Association to fill a vanancy in the office of Secretary, effective for the unexpired term.

#### B. Ex-officio

For the purpose of coordinating Association activities with the functions of the National Climatic Center and related federal agencies, the Director of the National Climatic Center shall be invited to appoint an ex-officio, advisory member of the Executive Board.

## VI. Council

- The Council of the Association shall consist of all registered Voting members of the Association, including officers of the Executive Board, who shall be ex-officio officers of the Council.
- 2. Council members shall have the responsibility to promote communication between the Association and their respective State Governments.
- 3. The Council shall be the body which represents the Association in official transactions with federal, state, or private agencies and in announcements to the public at large.
- 4. All corporate powers of the Association shall be vested solely in the Council.
- 5. A majority of Council members voting may direct the Executive Board to act on behalf of the Council for specified purposes.

## VII. Amendments

- 1. This constitution may be amended only by a mail ballot of the Voting Membership of the Association, or by Voting members attending the annual open meeting.
- 2. Submission of a proposed amendment to the Association shall require a majority vote at a scheduled meeting or a petition to the Executive Board signed by at least ten Members.
- 3. Adoption of an amendment shall require a two-thirds majority of Voting Members who cast a vote.

#### BY-LAWS

- 1. The rules contained in Robert's Rules of Order Revised shall govern the Association in all cases to which they are applicable, and in which they are not inconsistent with the Constitution or By-laws of the Association.
- 2. The Executive Committee shall levy membership dues. Any Association action which involves financial obligations shall incorporate a provision to meet each obligaion on an ad hoc basis.

## 3. Meetings

The time and place for each meeting of the Association shall be designated by the Executive Board. Ordinarily, the Executive Board will solicit the advice of members at one meeting to determine the time, place, and tentative agenda for the next meeting. A meeting at which a quorum is present shall constitute an official meeting of the Council.

## 4. Quorum

A quorum for a meeting of the Association shall be a majority of the voting membership.

## 5. Invited Participants

The Executive Board shall be empowered to invite non-voting observers or advisors to attend meetings of the Association for any purpose that is consistent with Association objectives.

## 6. Nomination of Officers

A Nominating Committee, consisting of three Voting Members and elected by a majority vote of the Council, shall prepare a list of candidates in advance of an announced election. A nomination for any office may also be made by the signed petition of five or more Voting Members. Officers of the Executive Board are not eligible to serve on the Nominating Committee, nor to sign a nominating petition.

## 7. Elections

Elections normally shall be held at meetings of the Association. The Executive Board shall be empowered to arrange an election by mail ballot when circumstances warrant.

## 8. Headquarters

The official headquarters address of this Association, its Executive Board, and its Council, whall be at the National Climatic Center, Federal Building, Asheville, North Carolina 28801.

# 9. Amendment of By-laws

These by-laws may be amended at any meeting of the Association by a two-thirds majority of the members voting, provided that the amendment was submitted at a previous meeting, or that it was presented in writing to the membership at least 30 days prior to the next meeting.

10. The executive board shall appoint as many members to a Standing Committee as deemed necessary to carry out its purposes. Appointments may be terminated or renewed by the Executive Board. The Standing Committees of this Association shall be:

(a) Committee on State Climatology Programs.

# AASC Meeting Attendance

August 12-13, 1982

James A. Amazan National Advisory Commission on Oceans & Atmosphere

Charles Bach Assistant State Climatologist - Tennessee (TVA)

William D. Bartlett National Climatic Center

Tom Blackburn Climate Program Leader, NWS, Silverspring, MD

George Bomar Texas Dept. of Water Resources

Martha Buffum University of Virginia

Norman Canfield University of Maryland

Eugene A. Carter State Climatologist - Maryland

Stanley Changnon Director, Illinois State Water Survey

Charles Chimento Assistant State Climatologist - Louisiana

Glenn Conner State Climatologist - Kentucky

Margaret Courain Acting Director - EDIS

Arnold Court California State University, Northridge

Harold Crutcher Consulting Meteorologist - Asheville, NC

Kenneth Davidson Acting Deputy Director, National Climatic Center

Bernard Dethier State Climatologist - New York

Earl W. Estelle National Weather Service Headquarters

Richard J. Foster University of Virginia

Joe Friday National Weather Service

James Goodridge State Climatologist - California

Robert Gerzoff University of Virginia

John Griffiths State Climatologist - Texas

Kenneth Hadeen EDIS/CEAS

Vaughn Havens State Climatologist - New Jersey

Bruce Hayden University of Virginia

Kenneth Hubbard State Climatologist - Nebraska

Earl Kuehnast State Climatologist - Minnesota

Kenneth Kunkel State Climatologist - New Mexico

Jim Laver CAC, NMC

David Ludlum "Weatherwise"

John Mather State Climatologist - Delaware

Thomas McKee State Climatologist - Colorado

Patrick Michaels State Climatologist - Virginia

David Miller State Climatologist - Connecticut

Joseph Moyer State Climatologist - Maryland

Robert Muller State Climatologist - Louisiana

Allan Murphy State Climatologist - Oregon

Fred Nurnberger State Climatologist - Michigan

Gayther Plummer State Climatologist - Georgia

William Pogerman National Weather Service

John Purvis State Climatologist - South Carolina

James Rahn Consulting Climatologist - Camp Hill, Pennsylvania

Malcom Reid National Oceanic & Atmospheric Administration

Peter Robinson National Climate Program Office/NOAA (Also

represented the North Carolina State Climatologist)

Lawrence Schaal State Climatologist - Indiana

Tom Schmidlin Cornell University

August L. Shumbera National Climatic Center

Art Snider SNS, Baltimore, MD

Jerry Stenger University of Virginia

Norton Strommer USDA/WAOB

Ed Tiernan EDIS/NOAA

John Vogel RCCO/Illinois State Water Survey

Paul Waite State Climatologist - Iowa

Chester Wayland University of Virginia

Wayne Wendland State Climatologist - Illinois